Attorney Docket No.: 098501-0235299

From-PILLSBURY WINTHROP

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I. AMENDMENTS TO THE CLAIMS

- 1-37. (Canceled)
- 38. (Currently Amended) A method for obtaining the production of a fertilizable occyte within a program of controlled ovarian stimulation for assisted reproduction techniques (COS/ART) comprising:
 - (a) administering an exogenous gonadotropin to induce follicle growth, and
- (b) administering a luteinizing hormone releasing hormone (LHRH) antagonist to prevent a premature LH surge, wherein the LHRH antagonist is administered in a single or dual dosage regimen of 1 to 10 mg per dose beginning on menstruation cycle day 1 to 10; and

wherein follicular growth occurs in the absence of a LH surge_a fertilizable oocyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the LHRH antagonist is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

- 39. (Previously Presented) The method of claim 38, wherein the dosage of LHRH antagonist is in the range of 2-6 mg per dose.
- 40. (Previously Presented) The method of claim 38, wherein dosage of LHRH antagonist is 3 mg per dose.
 - 41. (Cancel)
- 42. (Previously Presented) The method of claim 38, wherein the LHRH antagonist is administered by subcutaneous injection.
 - 43. (Cancel)
- 44. (Previously Presented) The method of claim 38, wherein the LHRH antagonist is administered starting cycle day 4 to 8.
- 45. (Previously Presented) The method of claim 38, wherein the LHRH antagonist is administered starting on cycle day 6 to 10 and ovulation occurs between day 9-16 of the menstruation cycle.

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- 46. (Previously Presented) The method of claim 38, wherein ovulation occurs within 6.5 days following administration of a single or second dose of the LHRH antagonist.
- 47. (Previously Presented) The method of claim 38, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- 48. (Previously Presented) The method of claim 38, wherein ovulation is induced by administering a hormone or hormone agonist in order to induce ovulation.
- 49. (Previously Presented) The method of claim 38, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- 50. (Previously Presented) The method of claim 38, wherein the LHRH antagonist is Cetrorelix.
- 51. (Currently Amended) A method for obtaining the production of a fertilizable oocyte within a program of COS/ART comprising:
 - (a) administering human menopausal gonadotropin (HMG) to induce follicle growth, and
- (b) administering Cetrorelix to prevent a premature LH surge, wherein Cetrorelix is administered in a single or dual dosage regimen of 1 to 10 mg per dose beginning on menstruation cycle day 1 to 10; and

whereby wherein follicular growth occurs in the absence of a LH surge, a fertilizable occyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the Cetrorelix is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

- 52. (Previously Presented) The method of claim 51, wherein the dosage of the LHRH antagonist is in the range of 2-6 mg per dose.
- 53. (Previously Presented) The method of claim 51, wherein the dosage of Cetrorelix is 3 mg per dose.
 - 54. (Cancel)
 - 55. (Cancel)

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- 56. (Previously Presented) The method of claim 51, wherein the Cetrorelix is administered starting cycle day 4 to 8.
- 57. (Previously Presented) The method of claim 51, wherein Cetrorelix is administered starting on cycle day 6 to 10 and ovulation occurs between day 9-16 of the menstruation cycle.
- 58. (Previously Presented) The method of claim 51, wherein ovulation occurs within 6.5 days following administration of a single or second dose of Cetrorelix.
- 59. (Previously Presented) The method of claim 51, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- 60. (Previously Presented) The method of claim 51, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- 61. (Currently Amended) An improved method for obtaining the production of a fertilizable occyte within a program of COS/ART comprising:
 - (a) administering an exogenous gonadotropin to induce follicle growth; and
 - (b) administering an LHRH antagonist to prevent a premature LH surge;

wherein the improvement comprises administering the LHRH antagonist in a single or dual dosage regimen of 1 to 10 mg per dose beginning on menstruation cycle day 1 to 10, and

wherein the follicular growth occurs in the absence of a LH surge, a fertilizable oocyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the LHRH antagonist is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

- 62. (Previously Presented) The improved method of claim 61, wherein the dosage of LHRH antagonist is in the range of 2-6 mg per dose.
- 63. (Previously Presented) The improved method of claim 61, wherein the dosage of LHRH antagonist is 3 mg per dose.
 - 64. (Cancel)
- 65. (Previously Presented) The improved method of claim 61, wherein the LHRH antagonist is administered by subcutaneous injection.

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- 66. (Cancel)
- 67. (Previously Presented) The improved method of claim 61, wherein the LHRH antagonist is administered starting cycle day 4 to 8.
- 68. (Previously Presented) The improved method of claim 61, wherein the LHRH antagonist is administered starting on cycle day 6 to 10 and ovulation occurs between day 9-16 of the menstruation cycle.
- 69. (Previously Presented) The improved method of claim 61, wherein ovulation occurs within 6.5 days following administration of a single or second dose of the LHRH antagonist.
- 70. (Previously Presented) The improved method of claim 61, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- 71. (Previously Presented) The improved method of claim 61, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- 72. (Previously Presented) The improved method of claim 61, wherein the LHRH antagonist is Cetrorelix.
 - 73. (Currently Amended) The improved method of claim 61 further comprising:
 - (a) administering human menopausal gonadotropin (HMG) to induce follicle growth; and
- (b) administering Cetrorelix to prevent a premature LH surge;
 wherein the improvement comprises subcutaneously administering Cetrorelix in a
 single or dual dosage regimen of 1 to 10 mg per dose beginning on menstruation cycle day 1
 to 10; and

whereby wherein ovulation occurs between day 9 and 20 of the menstruation cycle, and the LHRH antagonist is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

74. (Previously Presented) The improved method of claim 73, wherein the dosage of Cetrorelix is in the range of 2-6 mg per dose.

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- 75. (Previously Presented) The improved method of claim 73, wherein the dosage of LHRH antagonist is 3 mg per dose.
 - 76. (Cancel)
 - 77. (Cancel)
- 78. (Previously Presented) The improved method of claim 73, wherein the LHRH antagonist is administered starting cycle day 4 to 8.
- 79. (Previously Presented) The improved method of claim 73, wherein Cetrorelix is administered starting on cycle day 6 to 10 and ovulation occurs between day 9-16 of the menstruation cycle.
- 80. (Previously Presented) The improved method of claim 73, wherein ovulation occurs within 6.5 days following administration of a single or second dose of Cetrorelix.
- 81. (Previously Presented) The improved method of claim 73, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- 82. (Previously Presented) The improved method of claim 73, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- 83. (Currently Amended) A method for obtaining the production of a fertilizable occyte within a program of controlled ovarian stimulation for assisted reproduction techniques (COS/ART) comprising
 - (a) administering an exogenous gonadotropin to induce follicle growth,
- (b) administering a luteinizing hormone releasing hormone (LHRH) antagonist to prevent a premature LH surge, wherein the LHRH antagonist is administered in a dosage regimen of daily doses of 0.25 mg/day for multiple days.

wherein the LHRH antagonist is administered daily beginning on menstruation cycle day 1 to 10, wherein the follicular growth occurs in the absence of a LH surge, a fertilizable occyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the LHRH antagonist is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

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- 84. (Previously Presented) The method of claim 83, wherein the LHRH antagonist is administered by subcutaneous injection.
 - 85. (Canceled)
- (Previously Presented) The method of claim 83, wherein the LHRH 86. antagonist is administered starting cycle day 4 to 8.
- (Previously Presented) The method of claim 83, wherein a daily dose of the 87. LHRH antagonist is administered for 3 to 14 days.
- (Previously Presented) The method of claim 83, wherein a daily dose of the LHRH antagonist is administered for 3 to 7 days.
- (Previously Presented) The method of claim 83, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- (Previously Presented) The method of claim 83, wherein ovulation is induced 90. by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- (Previously Presented) The method of claim 83, wherein the LHRH 91. antagonist is Cetrorelix.
- (Currently Amended) A method for obtaining the production of a fertilizable 92. oocyte within a program of COS/ART comprising:
- (a) administering human menopausal gonadotropin (HMG) to induce follicle growth, and:
- (b) administering Cetrorelix to prevent a premature LH surge, wherein Cetrorelix is subcutaneously administered in a dosage regimen of daily doses of 0.25 mg per day for multiple days;

whereby wherein follicular growth occurs in the absence of a LH surge, a fertilizable oocyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the Cetrorelix is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

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- 94. (Previously Presented) The method of claim 92, wherein Cetrorelix is administered starting cycle day 4 to 8.
- 95. (Previously Presented) The method of claim 92, wherein a daily dose of Cetrorelix is administered for 3 to 14 days.
- 96. (Previously Presented) The method of claim 92, wherein a daily dose of Cetrorelix is administered for 3 to 7 days.
- 97. (Previously Presented) The method of claim 92, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- 98. (Previously Presented) The method of claim 92, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- 99. (Previously Presented) An improved method for obtaining the production of a fertilizable oocyte within a program of controlled ovarian stimulation for assisted reproduction techniques (COS/ART) comprising
 - (a) administering an exogenous gonadotropin to induce follicle growth, and
- (b) administering a luteinizing hormone releasing hormone (LHRH) antagonist to prevent a premature LH surge,

wherein the improvement comprises administering the LHRH antagonist in a dosage regimen of daily doses of 0.25 mg per day for multiple days, the follicular growth occurs in the absence of a LH surge, a fertilizable occyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the LHRH antagonist is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

- 100. (Previously Presented) The improved method of claim 99, wherein the LHRH antagonist is administered by subcutaneous injection.
 - 101. (Canceled)
- 102. (Previously Presented) The improved method of claim 99, wherein the LHRH antagonist is administered starting cycle day 4 to 8.
- 103. (Previously Presented) The improved method of claim 99, wherein a daily dose of the LHRH antagonist is administered for 3 to 14 days.

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104. (Previously Presented) The improved method of claim 99, wherein a daily dose of the LHRH antagonist is administered for 3 to 7 days.

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- 105. (Previously Presented) The improved method of claim 99, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- 106. (Previously Presented) The improved method of claim 99, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- 107. (Previously Presented) The improved method of claim 99, wherein the LHRH antagonist is Cetrorelix.
 - 108. (Currently Amended) The improved method of claim 99, comprising:
- (a) administering human menopausal gonadotropin (HMG) to induce follicle growth, and
- (b) administering Cetrorelix to prevent a premature LH surge;
 wherein the improvement comprises subcutaneously administering Cetrorelix in a dosage regimen of daily doses of 0.25 mg per day for multiple days;

whereby wherein follicular growth occurs in the absence of a LH surge and a fertilizable occyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the Cetrorelix is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

- 109. (Canceled)
- 110. (Previously Presented) The improved method of claim 108, wherein Cetrorelix is administered starting cycle day 4 to 8.
- 111. (Previously Presented) The improved method of claim 108, wherein a daily dose of Cetrorelix is administered for 3 to 14 days.
- 112. (Previously Presented) The improved method of claim 108, wherein a daily dose of Cetrorelix is administered for 3 to 7 days.

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- 113. (Previously Presented) The improved method of claim 108, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.
- 114. (Previously Presented) The improved method of claim 108, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, and recombinant LH.
- 115. (Currently Amended) A method for obtaining the production of a fertilizable oocyte within a program of assisted reproduction techniques comprising:
- (a) allowing normal follicular growth and development to proceed in the absence of stimulation by an exogenous gonadotropin;
- (b) administering a luteinizing hormone releasing hormone (LHRH) antagonist in a single or dual dosage regimen that prevents a premature LH surge;

whereby wherein follicular growth and development proceeds in the absence of a LH surge and a fertilizable occyte is produced, ovulation occurs between day 9 and 20 of the menstruation cycle, and the Getrorelix LHRH antagonist is sufficient to suppress LH, while FSH secretion is maintained at a natural level and individual estrogen development is not affected.

- 116. (Previously Presented) The method of claim 115, wherein the LHRH antagonist is administered by subcutaneous injection.
 - 117. (Canceled)
- 118. (Previously Presented) The method of claim 115, wherein the LHRH antagonist is administered starting cycle day 4 to 8.
- 119. (Previously Presented) The method of claim 115, wherein the LHRH antagonist is administered starting on cycle day 6 to 10 and ovulation occurs between day 9 to 16 of the menstruation cycle.
- 120. (Previously Presented) The method of claim 115, wherein ovulation occurs within 6.5 days following administration of a single or second dose of the LHRH antagonist.
- 121. (Previously Presented) The method of claim 115, wherein ovulation occurs normally, without the administration of a hormone or hormone agonist to induce ovulation.

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- 122. (Previously Presented) The method of claim 115, wherein ovulation is induced by administering a hormone or hormone agonist in order to induce ovulation.
- 123. (Previously Presented) The method of claim 115, wherein ovulation is induced by administering a hormone or hormone agonist selected from the group consisting of native LH, recombinant LH, an LHRH agonist, and HCG.
- 124. (Previously Presented) The method of claim 115, wherein the LHRH antagonist is selected from the group consisting of Ganirelix, Antarelix, Antide, Azaline B, Ramorelix, A-76154, Nal-Glu, 88-88, Cetrorelix, a structure-truncated peptide with LHRH-antagonistic activity, a peptidomimetic with LHRH-antagonistic activity, and a bicyclic LHRH-analog with antagonistic activity.
- 125. (Previously Presented) The method of claim 124, wherein the LHRH antagonist is a peptidomimetic with LHRH-antagonistic activity selected from the group consisting of D-23980 and D-24824.
- 126. (Previously Presented) The method of claim 124, wherein the LHRH antagonist is Cetrorelix.
- 127. (Previously Presented) The method of claim 115, wherein a fertilizable oocyte is produced within a program of extracorporeal fertilization by sperm injection.
- 128. (Previously Presented) The method of claim 115, wherein a fertilizable oocyte is produced within a program of extracorporeal fertilization by in vitro fertilization.